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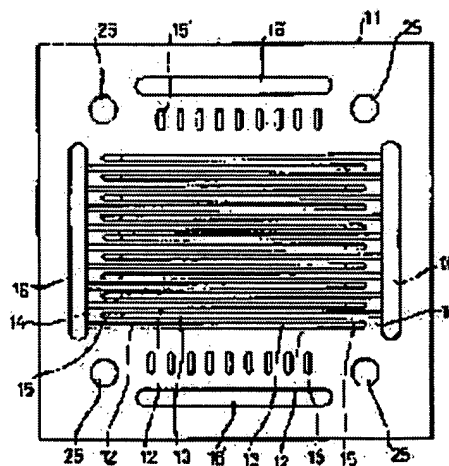
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(54) SEPARATOR FOR FUEL CELL AND CELL STACK FOR FUEL CELL

(57)Abstract:

PURPOSE: To uniformize supply of a gas to the whole of an electrode even if the electrode area is enlarged to effectively utilize the whole electrode by alternately installing the inflow port and the outflow port of the gas so that the direction of gas flow is alternately reversed.

CONSTITUTION: Each gas flow path 13 in a separator for fuel cell has a closed part 14 formed by alternately connecting and uniting, at the end on the opposite side, an adjacent current collecting rib 12, and an oval gas outflow port 15 is installed so as to pierce through the back in the bottom of the closed end of the flow path 13. A long hole gas inflow port 16 is installed so as to pierce through the back in the perpendicularly crossing direction at the opening end of each flow path. The inflow port 16 is installed on the outer side than the outflow port 15. The flow path 13 becomes sufficiently long, and the flow path 13, the outflow port 15, and the inflow port 16 are also installed on the back with 90° shifted. Even if the electrode area is enlarged, the supply of a gas is uniformized over the whole electrode, current density is enhanced, and the whole electrode is effectively utilized.



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